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Heat-sensitive material - contg. hydrophilic polymer water and  
water-soluble salts for improved reversable thermal changes

Patent Assignee: ASAHI DOW LTD (ASAF )

Number of Countries: 001 Number of Patents: 002

Patent Family:

| Patent No   | Kind | Date     | Applicat No | Kind | Date | Main IPC | Week     |
|-------------|------|----------|-------------|------|------|----------|----------|
| JP 51003248 | A    | 19760112 |             |      |      |          | 197609 B |
| JP 81035703 | B    | 19810819 |             |      |      |          | 198137   |

Priority Applications (No Type Date): JP 7472247 A 19740626

Abstract (Basic): JP 51003248 A

A heat-sensitive material which shows reversible thermal change in such a way that it is opaque at above a specific temp. and becomes transparent when cooled to below that specific temp. comprises a mixt. of <5 wt.% of hydrophilic polymer and 0.1-95 wt.% of water and contains water-soluble salt in amt. not exceeding its satn. solubility. The salt is soluble in the mixt.

The hydrophilic polymer dissolves or swells homogeneously in water at a specific temp. e.g. as polyethylene oxide, vinyl alcohol - vinyl acetate copolymer, polyvinyl methyl ether and natural polymers such as polysaccharides. The water-soluble salts include organic and inorganic salts and are used in amts. of 0.1-30 pts. per 100 pts. of the mixt. (by wt.).

Derwent Class: A18; A25; A89; G05; P75

International Patent Class (Additional): B41M-005/26; C09K-003/00